

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 06316584 A

(43) Date of publication of application: 15.11.94

(51) Int. Cl

C07F 7/18

C07B 53/00

C07C 67/333

C07C 67/343

C07C 69/732

C07C 69/734

C07C 69/738

C07D309/30

C07D319/06

// C07B 61/00

(21) Application number: 05233018

(22) Date of filing: 20.09.93

(30) Priority: 21.09.92 JP 04251413  
22.01.93 JP 05 9489  
09.03.93 JP 05 47878

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(54) 6-HEPTYNOIC ACID AND HEPTENOIC ACID  
COMPOUND

(57) Abstract:

PURPOSE: To obtain a compound which is a hydroxymethylglutaryl-CoA (HMG-CoA) reductase inhibitor, having a specific structure and useful producing a therapeutic agent such as a therapeutic agent for hypercholesterolemia.

CONSTITUTION: The compound is expressed by formula I (Z is expressed by formula II or III [A is CO or CHOR<sup>1</sup> (R<sup>1</sup> is H or a protecting group of OH); B is CO or CHOR<sup>2</sup> (R<sup>2</sup> is the same as R<sup>1</sup>; R<sup>1</sup>, together with R<sup>2</sup>, may form a ring); R<sup>3</sup> is H, a 1-8C alkyl, aralkyl, aryl, etc.]; R<sup>8</sup> is H or a protecting group of triple bond). Furthermore, the 6-heptanoic acid compound expressed by formula IV (L is a 1-9C alkyl, alkylene, aralidyl, etc.) is preferably prepared by hydrometalating the compound expressed by formula I.

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